

# Single Phase Distribution

## Definition

**Single Phase Distribution board** – A single phase assembly containing switching or protective devices (e.g. circuit breakers and residual current operator devices) associated with one or more outgoing circuits fed from one or more incoming circuits, together with terminals for the neutral and circuit protective conductors. It may also include signalling and other control devices.

### Key standards

- BSEN 61439 – 3 Low Voltage Switchgear and Controlgear Assemblies
- BSEN 60898 – 1 Electrical accessories - Circuit breakers for overcurrent protection for household and similar installations - Circuit-breakers for a.c. operation
- BSEN 61009 – 1 Residual Current Circuit Breaker with Overcurrent Protection
- BSEN 61008 – 1 Specification for residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs). General rules
- BSEN 60947 - 2 Low-Voltage Switchgear and Controlgear. Circuit-breakers

## Applications

Final circuit single phase or single phase and neutral low voltage distribution, typical loads serviced;

Lighting, Power, IT, HVAC, Critical Power

Generally supplied by a panel board or three phase distribution board, systems are designed to ensure supply continuity “discrimination” and enhanced performance “cascading”.

### Typical infrastructure layout

